

SOS Remote App

User Manual

Version 4.3.0
March 17, 2015

<http://sos.noaa.gov>

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Overview

The iOS Remote Control app for Science On a Sphere® (SOS) is the primary way to control an SOS system. It is a universal app that runs on either the iPhone, iPod Touch, or iPad*. The app can display a list of datasets in the current presentation playlist, has intuitive orientation and playback control for the dataset loaded on the sphere, supports features such as annotation, zooming, and layering, supports quickly searching and browsing the entire SOS Data Catalog, and allows for creating a presentation playlist on the fly. The SOS Remote app uses Wi-Fi Internet access to connect to the SOS computer. Alternatively, a Bluetooth connection can be used.

*** The SOS Remote app for the iPad contains all features and is therefore the preferred method for controlling SOS. The iPhone and iPod Touch only contain a subset of features and is used for a basic SOS presentation (see the iPhone section in the Appendix). The rest of this manual assumes you will be using the iPad.**

System Requirements

To be useful, this app requires access to a Science On a Sphere® (SOS) installation. For further information about SOS, see our web site at <http://sos.noaa.gov>. The app does nothing interesting until it is connected to a running SOS system.

SOS Software Version

For full functionality of this app, please update your SOS computer to release version 4.3.0.

iOS Software Version

Your iOS device (iPhone, iPod Touch, or iPad) must be running a minimum of iOS version 8.0.

Option 1: Wi-Fi Access

The app requires Wi-Fi access to the SOS computer that is being controlled (specifically TCP port 2468).

There are two basic approaches to getting that Wi-Fi access. The first is to use the existing Wi-Fi infrastructure at your site. The second is to add a Wi-Fi router to your SOS installation. In either case, you will want to consult with your network and security team for advice on the best approach for Wi-Fi connectivity at your site. In extreme cases, Wi-Fi network security policies may entirely preclude the use of the SOS Remote app. A direct connection to a dedicated Wi-Fi router is preferred for performance reasons, since the remote control protocol is “chatty” and sends lots of messages back and forth between the device and the SOS computer.

Using Existing Wi-Fi Infrastructure

If your site has an existing Wi-Fi infrastructure, you may be able (or required by policy) to use it to connect to your SOS system. The details of this will be specific to your site, so you will need to consult with your networking team for the specifics at your site. Many sites have multiple Wi-Fi networks, typically a low-

security one for visitors and casual access, and one or more high-security for access to internal computers at the site. You will want to use the one that provides network access to your active SOS computer (TCP port 2468). There will be network passwords and/or VPN instructions that are specific to your site. See your network team for the details.

Adding a Wi-Fi Router to SOS

For the most responsive control of your SOS system by the app, you can connect a Wi-Fi router directly to your SOS computer. Doing this in a secure way requires some network expertise, so be sure to consult with your network team before attempting this. You may need to select a Wi-Fi channel that doesn't conflict with other Wi-Fi networks, for example. Using the minimum transmitter power that you need is always a good idea. And WPA2 encryption is probably the minimum level of encryption you will want to use. You might want to turn off the beacon identifier for your Wi-Fi router to make it less obvious to casual visitors at your site. You might also consider limiting access to the specific MAC addresses of your portable devices. The details of router configuration are beyond the scope of this document, so consult with your network team when in doubt.

The SOS computer has two network interfaces: one to the external Internet, and one for a private subnet. For maximum functionality, connect the router between the external Internet and the SOS computer. This will allow your iPad to access both the SOS computer and the Internet at large. The default NAT (Network Address Translation) of the router will allow both the SOS computer and the Wi-Fi devices to share the Internet connection. You may need to change the outward IP address configuration of your SOS system.

As an alternative, you can connect the router to the private subnet. This provides maximum security in the event your router is compromised, since the private network doesn't allow connecting beyond the SOS computer.

Option 2: Bluetooth

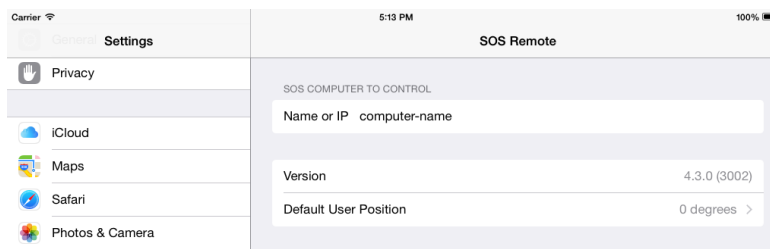
Alternative to the Wi-Fi approach described above, a Bluetooth connection can be used to connect the app to the SOS computer. This is a two step process. First, the SOS computer has to be configured to use a Bluetooth Personal Area Network (PAN). For further instructions on how to do this, please see the Support tab of our web site at: <http://sos.noaa.gov/Support/>

The next step is to pair the iPad with the SOS computer. Tap on the Settings icon on the homepage of your iPad to open the Settings app. Select the Wi-Fi section and turn off Wi-Fi. Then, select the Bluetooth section and turn on Bluetooth. A list of available Bluetooth devices should appear. Tap on the host

name of your SOS computer to pair your iPad. A Connected label should appear once the iPad is connected, and the iPad will show a pair of linked rings on the left hand side of the menu bar. If a connection cannot be established with the host name, try using the IP address of the SOS computer in the Name or IP section of the SOS Remote section (see Configuring the App below).

Configuring the App

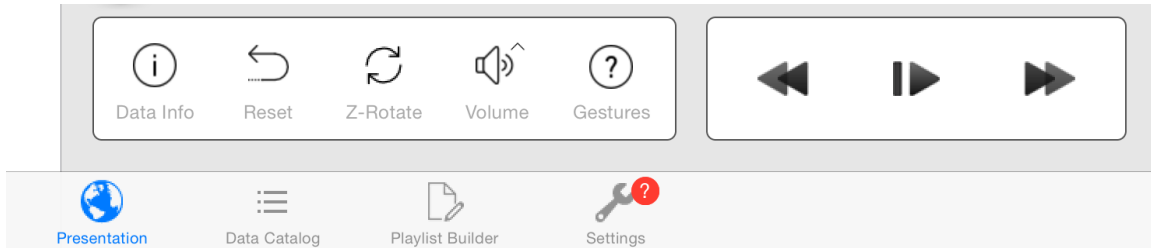
In order to control Science On a Sphere® from your iPad, you must configure your iPad to communicate with your SOS computer. To get started, tap on the Settings icon on the homepage of your device, and then tap on SOS Remote section on the left hand side list. In the Name or IP field under SOS computer to control, enter the host name or IP address of your SOS computer.



Now, return to the homepage and tap on the SOS Remote app icon to open the application. Tap on the Settings icon located in the tab bar to open the SOS Settings page. The host name or IP address you just entered should appear in the section labeled Connection.

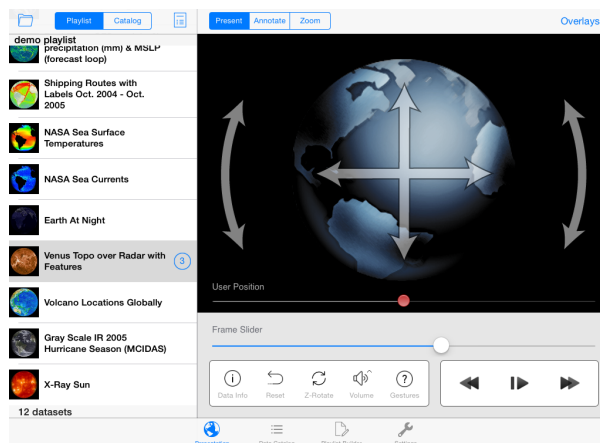
SOS Remote app will automatically try to initiate a connection between your device and your SOS computer. If a connection has been established, the word Connected will be displayed in the Connection section. If it is unable to connect, the words Not Connected will be displayed, along with an error message diagnostic to help you troubleshoot the problem. The SOS Remote app will keep trying to reconnect to the SOS computer every few seconds.

NOTE: If at any point the device is unable to connect to the SOS computer, a red badge with a question mark will automatically appear on top of the Settings tab of the SOS Remote app.



Presentation

Once a connection has been established between your device and the SOS computer, you are now ready to control the SOS display. Tap on the Presentation icon located in the tab bar of the app.



Playlist/Catalog

A presentation playlist is a collection of datasets grouped together in a list for a presentation. The presentation playlist that is currently loaded on the SOS computer is shown on the left hand side of the Presentation tab's page. (The Playlist item in the Playlist/Catalog toggle must be selected.)

To load a dataset from the presentation playlist onto the sphere, simply tap on the name of the dataset.

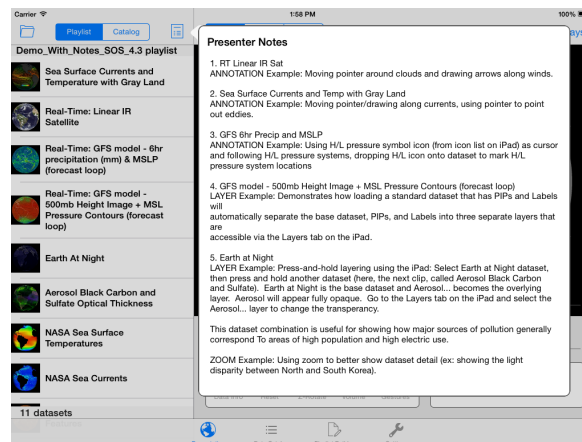
To load a new presentation playlist onto the app, tap the Open Folder icon to the left of the Playlist/Catalog toggle. This will display a list of all presentation playlists in the sosrc directory on the SOS computer. Select the presentation playlist of interest.

The Catalog item in the Playlist/Catalog toggle is used to display dataset search results from searching and browsing on the Data Catalog tab (see the Data Catalog section for more information). Just as with the Playlist list, you can select a dataset from the Catalog list to load it onto the sphere. When you toggle back to the Playlist item, your original presentation playlist will still be showing.

Presenter Notes

Presenter notes allows a presenter to view a set of notes that are associated with their presentation playlist. To show the Presenter Notes, go to the Presentation tab and tap the button directly to the right of the Playlist/Catalog control.

To create a set of notes for your presentation playlist, you can use the Playlist Builder (see the Playlist Builder section in this manual for more information) or you can use a text editor to directly edit your presentation playlist on the SOS computer (see the Playlist Format Reference homepage for more information: <http://sos.noaa.gov/Docs/Playlist.html>).



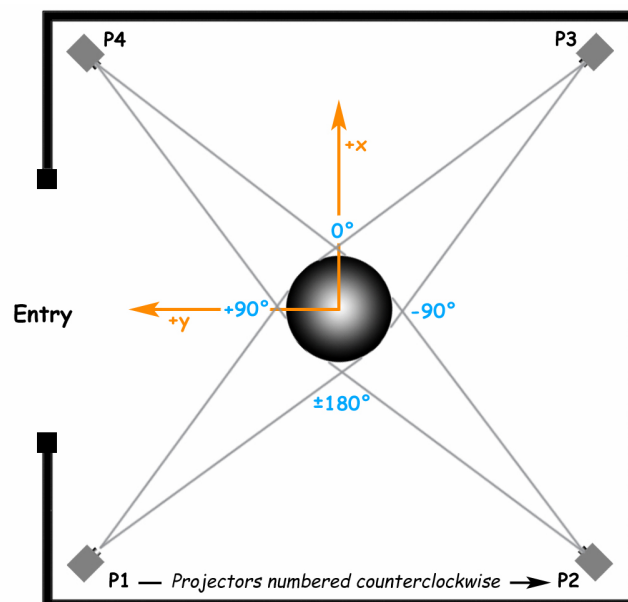
Orientation

Tap on the Presentation icon located in the tab bar, and select the Present button at the top of the Presentation page. This will display the Present tool, which consists of orientation and playback controls.

Before manipulating the orientation of the sphere, first use the User Position slider control to set your desired viewing position relative to the sphere.

When you tap and hold on the slider circle, a red dot will appear along the equator of the sphere (the default position places the red dot on the positive x-axis of the sphere at the equator, which corresponds to 0 degrees longitude). Move the slider left or right until you see the red dot in front of you or at any other desired location on the sphere. Now, all future orientation adjustments will occur relative to this view position. See diagram below.

To adjust the orientation of the sphere, simply slide one finger over the arrows indicated on the track pad. With the default 0 degree User Position, the up-down arrows tilt the sphere around the y-axis (pitch), the left-right arrows rotate the sphere around the z-axis (yaw), and the two arrows on either end of the track pad tilt the sphere around the x-axis (roll). Again, all rotations are relative to the User Position you selected using the slider control.



[Setting a User Position Offset](#)

By default, the User Position slider on the Presentation page is centered at 0 degrees longitude and extends to -180 and +180 degrees along the equator. If a site tends to present datasets to an audience around the +/- 180 degree location, they have to keep moving the slider to the far left and far right as they move from left to right in order to maintain orientation control relative to where they are standing. To make presentation more convenient, you can set an offset position for the slider. From the home page of your device, tap on the Settings icon and select the SOS Remote section. Then, tap on Default User Position to select the desired offset.

Other

To reset the orientation of the sphere back to its default position, tap the Reset button.

To automatically rotate a time-series dataset around the z-axis (the axis that passes through the north and south poles), tap the Z-Rotate button. Note that z-rotation will only be active when a time-series dataset is actually animating (vs. being paused).

Tap the “?” information button to view a quick help guide for Presentation gestures.

Playback

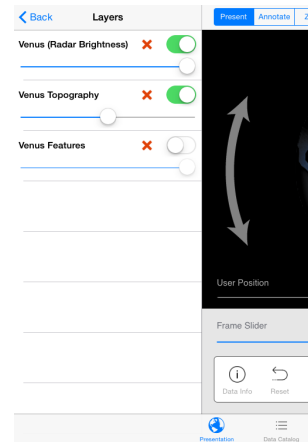
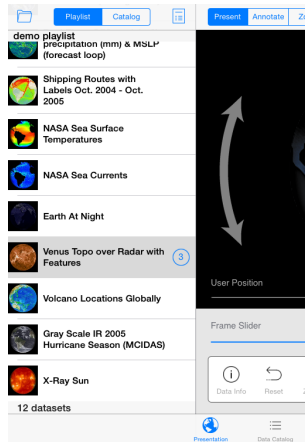
Tap on the Presentation icon located in the tab bar and make sure the Present button at the top of the Presentation page is selected. To pause or play a dataset, either tap the Pause/Play button, or use a two-finger single tap gesture in the track pad area.

To step forward or backward frame-by-frame, tap the forward and backward buttons, respectively. To fast forward or fast rewind quickly, tap and hold the forward and backward buttons, respectively. Note that tapping the forward or backward buttons will automatically pause the dataset if it was previously animating.

Use the Frame Slider to quickly scroll through a dataset. If the dataset is animating, the circle on the Frame Slider will automatically progress along the slider. Tapping on the circle at anytime will stop the animation.

Layers

Layering allows for multiple geographic layers to be present within a single SOS dataset. Each layer’s visual attributes, such as visibility and transparency, can be manipulated. Layering caters to more dynamic presentations and can be used to fluidly demonstrate the relationships between datasets.



Pre-Programmed Layers

In pre-programmed layering, a dataset has already been created to store multiple layers. Select a dataset in the current playlist or in the Data Catalog. If that dataset has any layers associated with it, a layers button (a blue circle with the number of layers in the dataset*) will automatically appear next to the dataset's name.

Tap on the layers button. A list of all the layers in the dataset will appear, along with an ON/OFF switch for each layer. To display a layer on the sphere, simply toggle the layer's switch to ON. To make a layer invisible on the sphere, simply toggle the layer's switch to OFF. To adjust the transparency of the layer, make sure the layer is turned ON and then adjust the transparency slider for that layer. To delete a layer, tap the X button for that layer. (Note that when you reload the dataset, the previously deleted layer will show up again on the layer's list.)

*** PIPs and Labels show up as separate layers on the Layers tab. However, the number of layers in the layers button does not include these layers in its layer count. It only includes global geographic layers.**

Interactive Layers

In interactive layering, two or more datasets can be combined on the fly during a presentation and then subsequently manipulated as layers. For example, suppose you are displaying the Aerosol Black Carbon and Sulfate dataset (let's call this dataset A) and you would like to overlay the Earth at Night dataset (let's call this dataset B) on top of it in order to show how major sources of pollution generally correspond to areas of high population and high electric use.

To do this using SOS Remote, you tap on dataset A to load it on the sphere, find dataset B either in your Playlist or from somewhere in the Data Catalog, and then press and hold dataset B. Dataset B will show up fully opaque on the sphere.

Go to dataset A, tap on its layers button, select dataset B, and adjust its transparency so that dataset A will show through.

Overlays

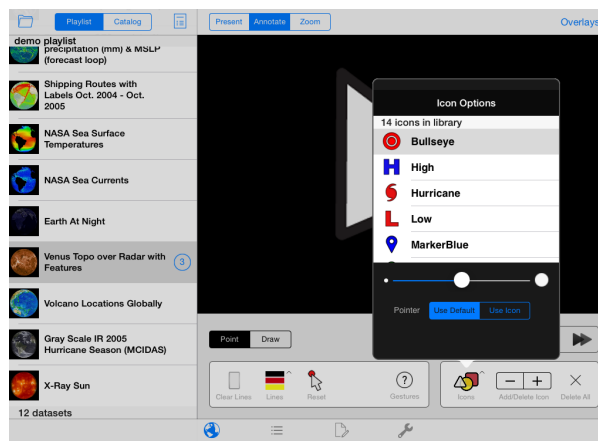
Additionally, SOS comes preloaded with a set of overlay datasets, such as Country Borders and Latitude/Longitude Grids, that may be useful during a presentation. To interactively overlay one of these datasets on top of the current dataset, simply tap the Overlays button located on the top right of the Presentation page to open the Overlays dialog. Tap on an overlay dataset in the list and that overlay will automatically get overlaid and will be available for manipulation via the layers button for the currently selected dataset.

For each layer that is interactively added/deleted, the number in the layers button will get automatically incremented/decremented.

Annotation

Annotation allows pointing and drawing on the sphere to dynamically highlight areas of interest during a presentation. In addition, icons related to datasets can be dropped onto the sphere. Annotation provides extra visual cues for the audience, and can serve as a helpful storytelling mechanism.

Tap on the Presentation icon located in the tab bar and select the Annotate button at the top of the page. (Alternatively, if you are on the Present page, you can do a two finger double tap on the trackpad to get to the Annotate page.) A white cursor appears on the sphere. The cursor will be located at either the last set User Position (the red dot) or at the last recorded position of the cursor.



Point Mode

Drag one finger over the trackpad (the trackpad should be displaying a white cursor) to move the cursor on the sphere.

Draw Mode

First position the white cursor on the sphere. Then, double tap the trackpad (or tap the Draw button) with one finger to get into Draw Mode. A yellow marker will appear on the trackpad and on the sphere. Drag one finger over the trackpad to draw onto the sphere. To draw at another location, you must first get back into Point Mode (by one finger double tapping the trackpad or by tapping the Point button), position the white cursor, and then get back into Draw Mode to draw.

You can select line color and line width by tapping the Lines button to open the Lines dialog.

All drawing can be cleared by tapping the Clear button or by doing a two finger single tap on the trackpad. Note that drawings can be cleared while in Point Mode or Draw Mode.

Drop Icons

Open the Icons dialog by tapping the Icons button. Select an icon from the library. Close the Icons dialog. Position your cursor on the sphere where you would like to drop the icon. Now, tap and hold on the trackpad with one finger to drop an icon onto the sphere. Alternatively, you can tap the “+” button to drop an icon. Use the “-” button to remove the last added icon. Use the “x” button to clear all icons on the sphere or use a three finger single tap to clear all icons.

The size of the icon can be adjusted by using the slider in the Icons dialog.

Note that icons can be dropped and cleared while in Point Mode or Draw Mode.

Using an Icon as a Pointer

Open the Icons dialog. Select an icon. Then tap the Use Icon button. Close the Icons dialog. The selected icon will now be the cursor that is drawn on the sphere. Similar to a rubber stamp concept, you can drop copies of this icon onto the sphere in the same way as detailed in the Drop Icons section above.

Other

The Reset button moves the Point or Draw cursor back to the last set User Position (as set on the Present page). This is useful in case you lose site of the cursor.

Tap the “?” information button to view a quick help guide for Annotation gestures.

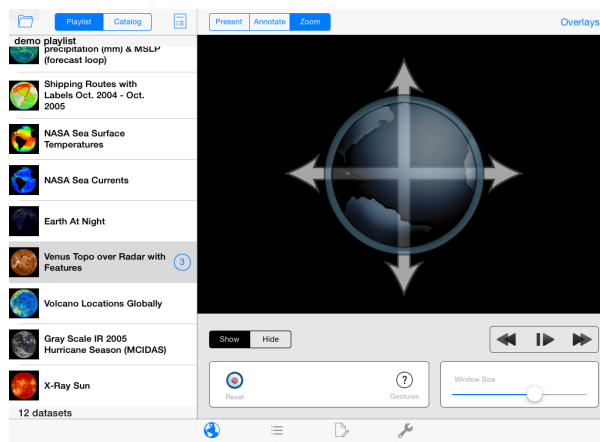
When a new dataset is selected from the playlist, all drawings and icons are automatically cleared and the Presentation tab is reset to display the Present tool.

Zoom

The Zoom tool allows zooming in over a region of the sphere for a closer look at the data. The zooming is done via a virtual magnifying glass that appears on the sphere.

Tap on the Presentation icon located in the tab bar and select the Zoom button at the top of the page. (Alternatively, if you are on the Present page, you can do a one finger single tap on the trackpad to get to the Zoom page.) A magnifying glass appears on the sphere. The magnifying glass will be located at either the last set User Position (the red dot) or at the last recorded position of the magnifying glass.

Drag one finger over the trackpad to move the magnifying glass on the sphere. Use the two finger pinch-in and pinch-out gestures on the trackpad to increase and decrease, respectively, the scale of the view in the magnifying glass. Use the Window Size slider to change the window size of the magnifying glass.



Other

While on the Zoom page, you can toggle the magnifying glass on or off by selecting the Show or Hide buttons, respectively.

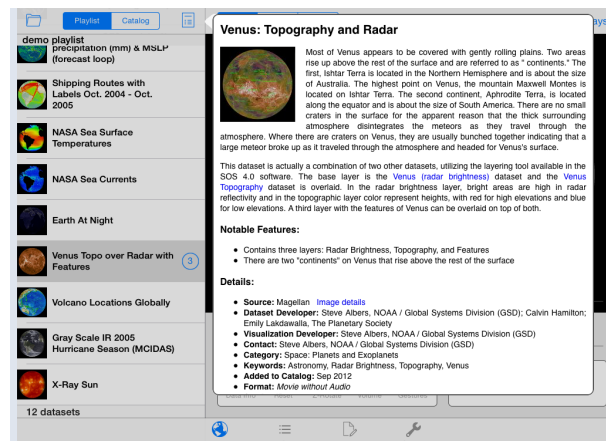
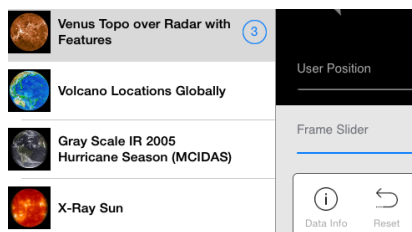
The Reset button moves the magnifying glass back to the last set User Position (as set on the Present page).

Tap the “?” information button to view a quick help guide for Zoom gestures.

When a new dataset is selected from the playlist, the magnifying glass is automatically cleared and the Presentation tab is reset to display the Present tool.

Data Info

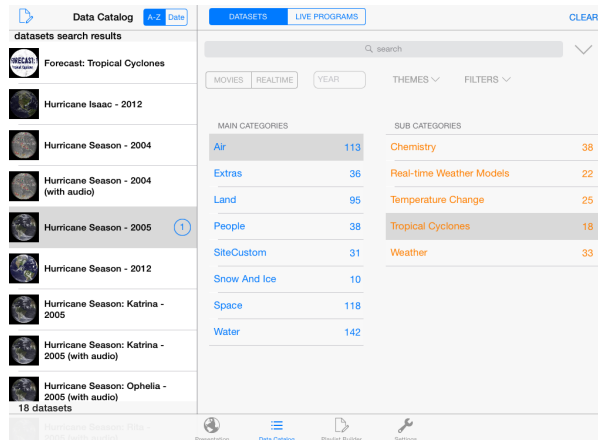
To view information about the dataset that is currently loaded on the sphere, go to the Presentation tab and select the Present button at the top of the page. Then, tap the Data Info button to bring up the information dialog.



Volume

To increase or decrease the volume of an audio dataset that is currently loaded on the sphere, tap on the Presentation icon located in the tab bar and select the Present button at the top of the page. Tap on the Volume button to bring up the Volume dialog and adjust the volume slider accordingly.

Data Catalog



Datasets

The Data Catalog tab allows you to quickly search and browse for datasets in the entire SOS Data Catalog. Simply tap on any combination of filters (Main/Sub Categories, Movies/Realtime, Year, Themes, Filters, etc.) to narrow down search and browse results. The dataset search results will appear in the left hand side column, which can be sorted alphabetically (with the A-Z toggle button), or sorted by date added to the SOS Data Catalog (with the Date toggle button). You can tap on a dataset to load it onto the sphere.

In addition to browsing, you can search for datasets by typing in a search term in the search box. By default, the search box searches through dataset titles. Other search options such as Keywords, Description, and Creator may be selected by tapping on the Expand Down button next to the search box to refine the search results.

Pressing the Clear button clears all filters and search terms and shows all datasets available in the SOS Data Catalog in the left hand side column.

The numbers in the Main Categories and Sub Categories tables indicate how many datasets are tagged with those category names.

NOTE: A dataset can be tagged with multiple main category names and multiple sub category names.

Live Programs

Live Programs are presentation playlists with a coherent theme that have accompanying scripts that have been written by NOAA and other SOS users.

To access Live Programs, tap on the Live Programs toggle button. Live Programs are only tagged with a Main Category. When you select a Main Category, a list of titles of presentation playlists will show up in the Live Programs column. When you tap on the a title, a list of all the datasets in that presentation playlist will show up in the left hand side column.

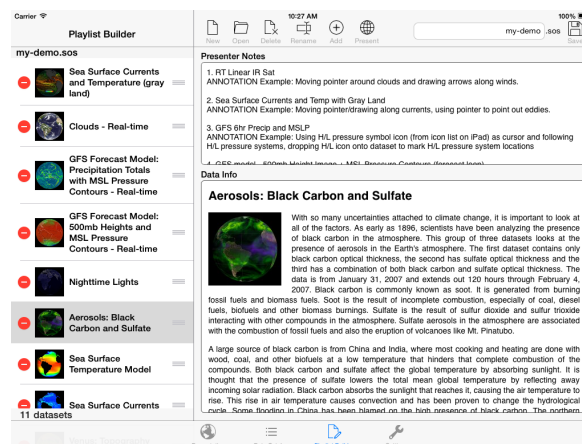
NOTE: The search, browse, and sort filters all get disabled when in Live Programs mode.

Other

You can add datasets from the Data Catalog to the Playlist Builder by selecting the Paper/Pen icon in the top left menu above the search results. This will put a green badge with a plus sign in front of each dataset name. When you tap on the green badge, it will add that dataset to the Playlist Builder. You can keep searching and browsing and adding datasets to the Playlist Builder in this mode. When you are finished, you can tap the Done button in the top left menu.

If there are Presenter Notes associated with a Live Program, you can access them by going to the Presentation tab, selecting the Catalog toggle button, and then tapping the Presenter Notes button. Presenter Notes are not available when you are searching for Datasets (i.e. when the Datasets toggle button in the Data Catalog tab is selected).

Playlist Builder



The Playlist Builder provides simple functionality to create and edit presentation playlists on the iPad rather than requiring you to work directly on the SOS computer. The Playlist Builder provides basic functionality similar to the “Shopping Cart” feature on the SOS website. If more advanced playlist construction and modification is required, the Playlist Editor on the SOS computer can be used. The new Playlist Builder also provides a way to create and edit presenter notes, which can be displayed on the Presentation tab (see the Presenter Notes part of the Presentation section of this manual for more information).

One important aspect of working with playlists in the Playlist Builder is that it operates independently from what is currently being displayed. In other words, any playlists that are read in, modified, and saved by the Playlist Builder will not alter what is being presented on the sphere.

There are four main parts of the Playlist Builder user interface: 1) an editing pane containing the list of the datasets in the current playlist, 2) a playlist file operations toolbar, 3) a Presenter Notes editing pane and, 4) a display-only Data Info pane.

Playlist Editing

The current presentation playlist being edited is shown as a list of datasets. Datasets may be added, removed, and reordered, and these operations may be performed in any combination as needed. Edits made are only temporary until the playlist is Saved.

- **Adding:** datasets are added to a playlist by selecting them from the Search Results list in the Data Catalog tab. The **Add** toolbar button in the Playlist Builder provides a quick way to enable adding datasets to the current playlist. It works by switching you to the Data Catalog tab and changing the Search Results list into an “Add” mode, where a green badge with a plus sign appears by each dataset. Alternatively, you may add datasets at any time using the Paper/Pen icon on the top left of Data Catalog tab (see the Other part of the Data Catalog section of this manual for more information). Once you have selected 1 or more datasets and have returned to the Playlist Builder tab, you will find the newly added datasets at the end of the dataset list. Note that you are allowed to add the same dataset more than once to a playlist.
- **Moving:** datasets may be reordered in the current playlist. This is done by selecting the horizontal lines “handle” on the right side of a dataset, holding it down, and dragging the dataset to the desired position.

- **Removing:** datasets may be removed from the current playlist using the red badge with a minus sign shown on the left side of each dataset. When the minus sign is pressed, a Remove button appears and when that is tapped, the dataset is removed from the current playlist. A remove operation may be cancelled by selecting the minus sign again before the Remove is pressed. Note that removed datasets are never actually deleted from the Data Catalog or the SOS computer, they are only taken out of the current playlist you are editing.

Playlist File Operations Toolbar

Basic operations relating to presentation playlists are controlled using buttons on the toolbar at the top right. All presentation playlist files are resident on the SOS computer within the ~/sosrc directory and the SOS software must be running while using the Playlist Builder.

The functions of the toolbar buttons are as follows:

- **New:** the New button is used to start a new playlist. It first clears out any current datasets or presentation notes after asking if you wish to save any edits. The new playlist does not yet have a corresponding file on the SOS computer and the “new_playlist.sos” shown is just a placeholder example rather than a real filename.
- **Open:** the Open button opens a playlist file and reads in its datasets and presentation notes. It first clears out any current datasets or presentation notes after asking if you wish to save any prior edits made.
- **Delete:** the Delete button deletes the currently opened playlist file from the SOS computer and clears out the Playlist Builder interface. You are always given the opportunity to cancel before doing the file deletion.
- **Rename:** the Rename button moves the currently opened playlist file on the SOS computer to a new filename, which must not already exist. You may specify subdirectories relative to ~/sosrc for the new filename, but those subdirectories must already exist on the SOS computer.
- **Add:** the Add button relates to playlist editing and is described below.
- **Present:** the Present button is used as a convenient way to load and display the current playlist starting from the Playlist Builder. It works by loading the playlist shown in the Playlist Builder (after edits are saved) and switching the iPad to the Presentation tab. All saved changes will be immediately available there, including any presentation notes entered.
- **Save:** the Save button writes the currently shown datasets and presenter notes in the Playlist Builder to the filename in the text box to the left of the button. If the name shown is the placeholder text “new_playlist.sos”, you will need to type in an actual filename. If you opened an existing playlist,

by default it will be saved back to the same filename. If you change the filename in the text box, pressing Save will create that new file for you, although it will not overwrite an existing filename.

Presenter Notes Editing

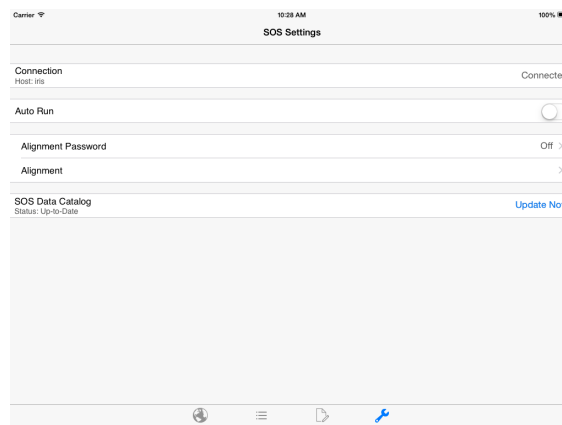
Presenter notes are a useful way to store notes about what you wish to say about the datasets in your playlist when you are making a presentation (see the Presenter Notes part of the Presentation section of this manual for more information).

Presenter notes may be easily added and edited using the Presenter Notes pane in the Playlist Builder. The iPad keyboard will appear when you click in that pane and you may enter or change text there as needed. Presenter note changes are only temporary until Saved along with the current playlist.

Dataset Information

The Data Info pane of the Playlist Builder provides detailed information about a dataset when selected in the dataset listing. Its content is the same as shown in the Data Info popup in the Presentation tab (see the Data Info part of the Presentation section of this manual for more information). One possible use of the text displayed in the Data Info pane is that you may wish to select and copy portions of it (such as Notable Features), and then paste it into the Presenter Notes pane.

Settings



Connection

The Connection section on the Settings tab of the SOS Remote App indicates whether or not the app is connected (either via Wi-Fi or Bluetooth) to the SOS computer. It also indicates the name or IP address of the SOS computer that was configured in the iPad's Settings app > SOS Remote section (see the Configuring the App section).

If the app is unable to connect, the words Not Connected will be displayed, along with an error message diagnostic to help you troubleshoot the problem. SOS Remote app will keep trying to reconnect to the SOS computer every few seconds.

Auto Run

To run Science On a Sphere® in automatic presentation mode, tap on the Settings icon located in the tab bar, and then set the ON/OFF switch in the Auto Run section to ON. An Auto Run message box will pop up that will block all controls on the app until the Stop button is pressed on the message box.

Alignment

NOTE: Using the alignment controls without understanding how projector alignment works, or accidentally tapping on alignment controls can cause the sphere to become completely unaligned.

To perform alignment of the projectors on the sphere, tap on the Settings icon located in the tab bar and select the Alignment option. The sphere will automatically display a white grid against a red background.

The Alignment interface is divided into three clearly labeled sections (Red Ball, Grid, and Vertex Tweaking) to facilitate greater ease in stepping through the alignment procedure. Please refer to the "Projector Alignment for Science On a Sphere® (SOS) Using an iPhone, iPod Touch, or iPad" Manual for complete information on the alignment controls and how to perform projector alignment.

Setting a Password

Before beginning alignment, you may want to set an alignment password to prevent unintended use of the alignment interface. To do this, tap on the

Settings icon located in the tab bar and then select Alignment Password to set a password.

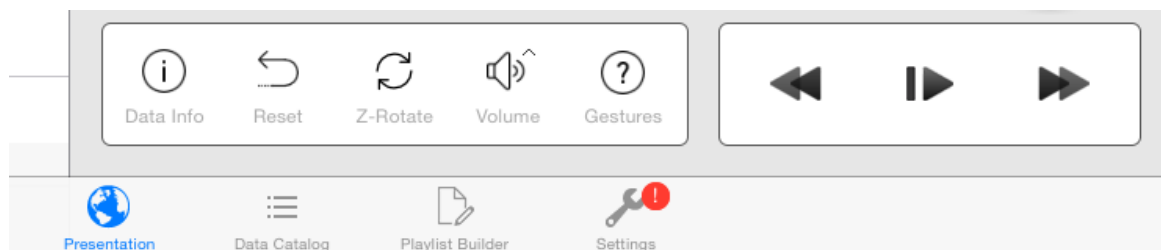
SOS Data Catalog

The SOS Data Catalog section on the Settings tab of the SOS Remote app indicates how up-to-date the dataset are in the Data Catalog tab, which is used for searching and browsing for datasets.

A red badge with a “!” inside of it indicates that the SOS Data Catalog is out of date on your iPad compared to the version on the SOS computer, and should be updated. To update the catalog, simply tap the Update Now button.

NOTE: The Data Catalog can take anywhere from 15 seconds to a minute to get updated. Also, sometimes the update fails and an error message will appear on the iPad. If this happens, try the Update Now button again.

NOTE: If you have added new Site-Custom data to your SOS computer, and you have already run the Update Library... button on SOS Stream GUI, you need to run Update Now in order for your new custom datasets to show up on the Data Catalog tab in the Site-Custom main category.



Troubleshooting

Wi-Fi

If you are experiencing problems with the Wi-Fi connection, try tapping on Settings > Wi-Fi and turn Wi-Fi off and then on again. Then, try to reconnect to the SOS computer via the SOS Settings page as detailed above.

For more tips on troubleshooting Wi-Fi networks and connections with iOS devices, please see: <http://support.apple.com/kb/ts1398>

Bluetooth

The SOS Data Catalog Update Now functionality (see the Settings section) appears to take longer on Bluetooth compared to Wi-Fi. If Update Now fails with Bluetooth, try it again one or two times. If it keeps failing, you may need to switch back to Wi-Fi.

Contact

Please contact sos.gsd@noaa.gov if you have any questions regarding the SOS Remote App.

Appendix

iPhone / iPod Touch

The iPhone and iPod Touch only support a subset of all the SOS Remote Control features described above for the iPad. In particular, the following IS NOT supported:

- Volume Control
- Data Info Button (see the Web Page description below that is used as an alternative)
- Presenter Notes
- Data Catalog Filters (such as main/sub category, year, themes , etc.) and Search (you can still browse through the library in a more cursory way)
- Playlist Builder
- Automated Alignment Interface (manual alignment is still supported)

Web Page

To view the specific SOS Data Catalog web page that corresponds to the dataset currently selected in the Playlist, tap on the Web Page icon located in the tab bar. If the dataset's web page cannot be found, the default SOS Data Catalog web page will be displayed. Note that this functionality requires that your device has an Internet connection to the external network.